Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
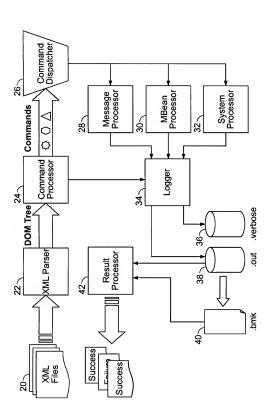Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 1

FIG. 2

REPLACEMENT SHEET
Drawing Sheet 3 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
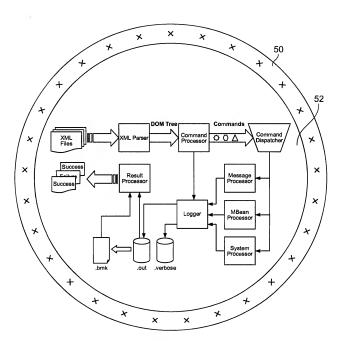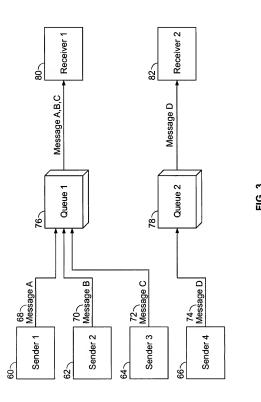Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
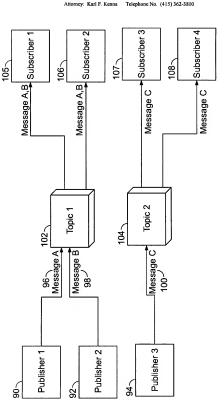Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

Receiver 1

80

Receiver 2

82

Message A,B,C

Message D

Queue 1

76

Queue 2

78

FIG. 3

Message A

68

Message B

70

Message C

72

Message D

74

Sender 1

60

Sender 2
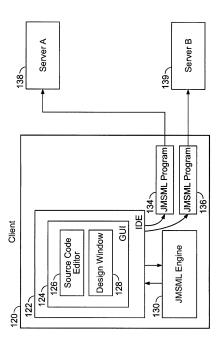
62

Sender 3

64

Sender 4

66

REPLACEMENT SHEET
Drawing Sheet 4 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
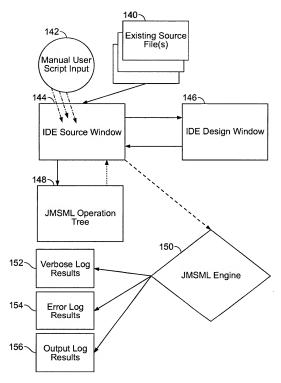Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 4

Subscriber 1   105
Subscriber 2   106
Subscriber 3   107
Subscriber 4   108

Message A,B
Message A,B
Message C
Message C

Topic 1   102
Topic 2   104

Message A   96
Message B   98
Message C   100

Publisher 1   90
Publisher 2   92
Publisher 3   94

REPLACEMENT SHEET
Drawing Sheet 5 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
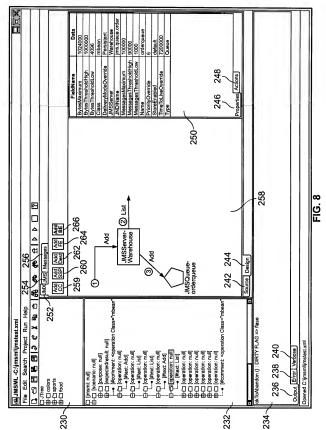Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

Server A 138

Server B 139

Client 120

IDE 122

GUI 124

Source Code Editor 126

Design Window 128

JMSML Engine 130

JMSML Program 134

JMSML Program 136

FIG. 5

REPLACEMENT SHEET
Drawing Sheet 6 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
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Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

140
Existing Source
File(s)

142
Manual User
Script Input

144
IDE Source Window

146
IDE Design Window

148
JMSML Operation
Tree

150
JMSML Engine

152
Verbose Log
Results

154
Error Log
Results

156
Output Log
Results

FIG. 6

REPLACEMENT SHEET
Drawing Sheet 7 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 7

REPLACEMENT SHEET
Drawing Sheet 8 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
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Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 8

REPLACEMENT SHEET
Drawing Sheet 9 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 9

FIG. 10

REPLACEMENT SHEET
Drawing Sheet 11 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
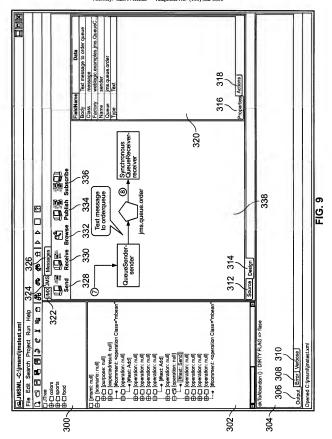Docket No.: BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 11

REPLACEMENT SHEET
Drawing Sheet 12 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
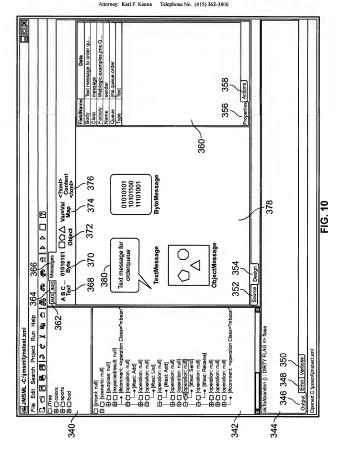Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.:   BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 12

REPLACEMENT SHEET
Drawing Sheet 13 of 19
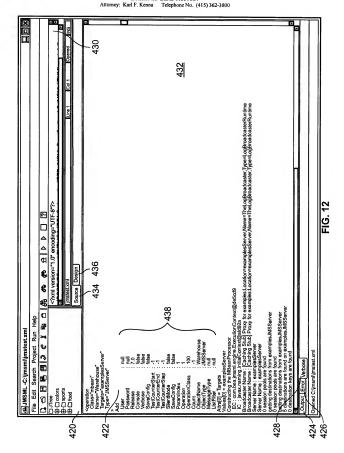Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 13

REPLACEMENT SHEET
Drawing Sheet 14 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 14

REPLACEMENT SHEET
Drawing Sheet 15 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
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Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 15

Server B — 514

Server C — 516

JMS/JMX Commands — 510

JMS/JMX Commands — 510

Computer/Processing Device — 500

Client — 502

Command-Line Interface — 504

JMSML Engine — 506

XML — 508

Server A — 512

JMS/JMX Commands — 510

REPLACEMENT SHEET
Drawing Sheet 16of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
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530
| User Opens Command-Line Interface at Client |

532
| User Enters Commands to Invoke Java Method |

534
| Corresponding Command (In XML Format) is Passed to JMSML Engine |

536
| Engine Generates Appropriate JMS/JMX Commands and Communicates them to Server Results are Optionally Generated |

538
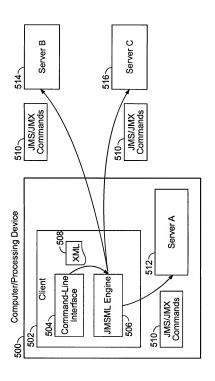| (Optionally) Store Results in Results File |

FIG. 16

FIG. 17

REPLACEMENT SHEET
Drawing Sheet 18 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
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Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

580 ⌐
┌───┐
│   User Enters Commands into Web Interface/   │
│   Browser at Client   │
└───┘

582 ⌐
┌───┐
│   Browser Communicates Code to JMSML   │
│   Servlet/Engine   │
└───┘

584 ⌐
┌───┐
│ JMSML Servlet/Engine Formulates JMS/JMX   │
│   Commands   │
└───┘

586 ⌐
┌───┐
│ JMS/JMX Commands are Communicated to   │
│   Target Server   │
└───┘

FIG. 18

REPLACEMENT SHEET
Drawing Sheet 19 of 19
Title: INTEGRATED DEVELOPMENT ENVIRONMENT FOR JAVA MESSAGE SERVICE MARK-UP LANGUAGE
Inventors: Kathiravan Sengodan
Application No.: 10/602,038   Filing Date: June 23, 2003
Docket No.: BEAS-01351US4
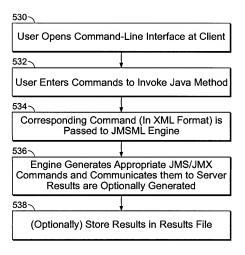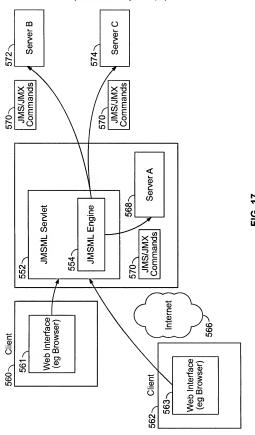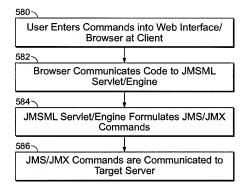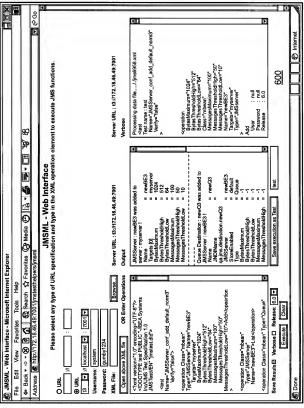Attorney: Karl F. Kenna   Telephone No. (415) 362-3800

FIG. 19